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Fieldner, Arno Carl

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... Bibliography of United States Bureau of mines investigations on coal and its products 1910-1930, by A. C. Fieldner and M. W. von Bernewitz. Washington, U. S. Govt. print. off., 1931.

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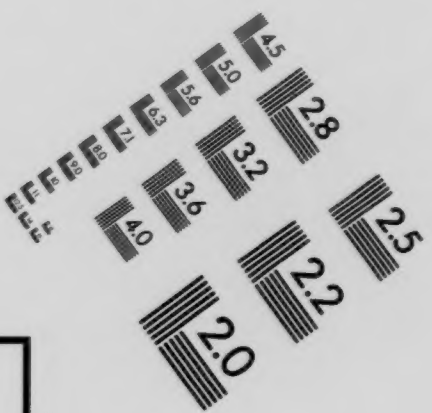


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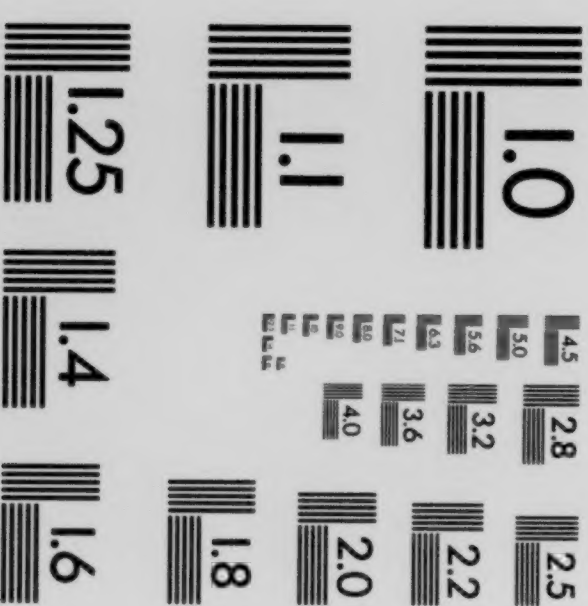
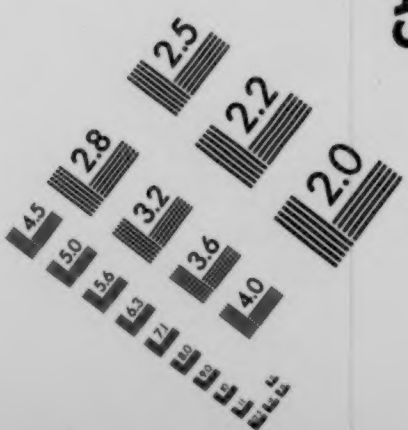
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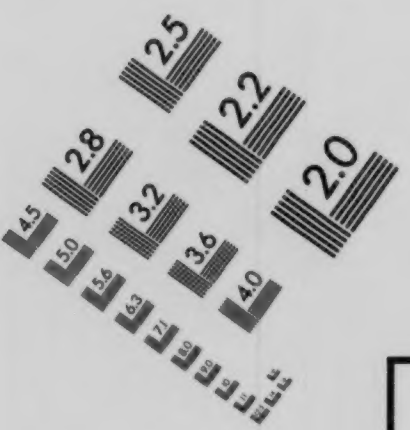
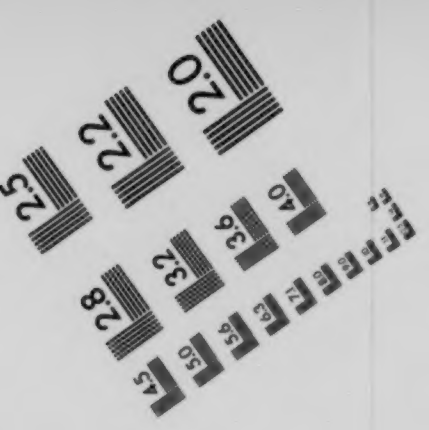
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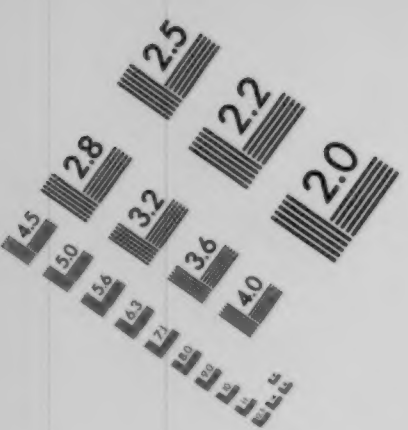
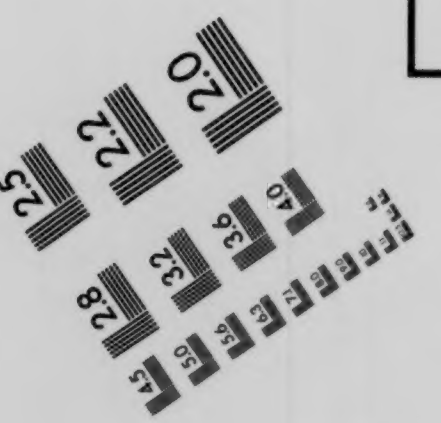
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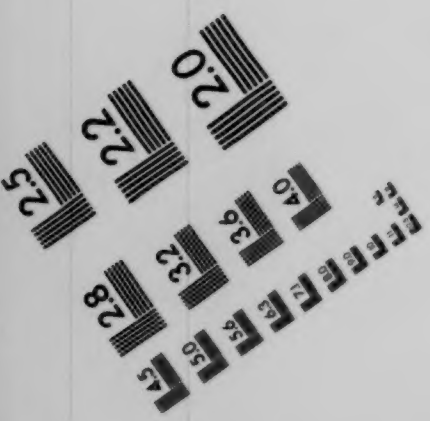


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**BIBLIOGRAPHY OF UNITED STATES BUREAU OF MINES
INVESTIGATIONS ON COAL AND ITS PRODUCTS**

1910-1930

A. C. FIELDNER and M. W. von BERNEWITZ



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FOREWORD

One of the principal functions of the United States Bureau of Mines is investigation of the efficient production and use of solid, liquid, and gaseous fuels and their by-products and publication of the findings thereon. The money appropriated by Congress for this work now amounts to \$150,000 per annum. The study of fuels, particularly coal, was begun in 1903 by the technologic branch of the United States Geological Survey, which was merged into the Bureau of Mines when it was organized in 1910. This bibliography on coal and its products includes publications issued by the Bureau of Mines and those written by its staff for the technical press, which includes the chemical and engineering periodicals of scientific bodies. Under this head are included reports of work done jointly with States and colleges.

The papers on coal and its products are separated into the class of publications and arranged alphabetically by authors. The publications of the Bureau of Mines comprise bulletins, technical papers, miners' circulars, reports of investigations, information circulars, and special reports.

In general, bulletins contain the published results of detailed studies of major problems which require scientific or technical investigation of an original nature. Technical papers are similar to bulletins but are limited to definite subdivisions of major problems. As a rule, they are shorter than bulletins.

Miners' circulars deal with the prevention of mine accidents, first-aid and rescue methods, and precautions against disease—that is, with matters of general interest to men actually engaged in mining.

Reports of investigations quickly make available important data pertaining to special phases of major problems. They are used also to outline briefly the results of original studies on minor problems. Frequently, the information contained in these papers is incorporated with additional findings and published later in bulletins or technical papers dealing with the same problems. Reports of investigations, dealing with various phases of all the mineral industries, are numbered serially, beginning with No. 2000, which was published in February, 1919.

Information circulars are short papers similar in form and manner of publication to reports of investigations. They concisely present the principal facts on various subjects and frequently include compilations, reviews, abstracts, and discussions. The material may not represent the results of original investigative work. Information circulars dealing with various phases of all the mineral industries are numbered serially, beginning with No. 6000, which was published in December, 1925. Prior to that date papers of a general informational character were classified as reports of investigations.

Special reports are issued at intervals to make available data of special and immediate interest. They are not numbered but are designated by title or subject matter.

In addition to the foregoing classes of publications, the Bureau of Mines, jointly with certain industries that bore the expense, has copies of about 60 motion-picture films of one to six reels each at 14 distributing points throughout the United States. These pictures are printed on standard slow-burning film; several show the production and use of fuels. Such films are available free, on payment of expressage both ways.

The foregoing general description applies to publications of the technologic branch of the Bureau of Mines. In addition, this bibliography includes references to papers on the economics and statistics of coal and coke issued by the economic branch of the bureau. This branch was organized shortly after July 1, 1925, when the former mineral resources division of the United States Geological Survey was transferred by Executive order to the Bureau of Mines. The economics branch of this bureau thus inherited certain records of the Geological Survey and assumed the responsibility of carrying forward the annual volumes, Mineral Resources of the United States, which, from 1880 to 1923, had been issued by the survey. Beginning with 1924, therefore, the Mineral Resources reports have appeared under the auspices of the Bureau of Mines. As the Mineral Resources volumes from 1917 to 1923 contained many important data on coal economics, the Director of the Geological Survey has kindly permitted the inclusion in this bibliography of references to these volumes and to other publications of the staff of the coal statistics section during their service with the survey. The economics branch also issues a series of current reports on coal and coke which are described on pages 33 and 34 of this report.

Many of the printed publications are starred. One star signifies that the report is out of print and is unobtainable from the Bureau of Mines or the Superintendent of Documents. Two stars signify that the report can be supplied only by the Superintendent of Documents, United States Government Printing Office, Washington, D. C., at the price stated.

As there has been a liberal distribution of all of these printed publications to public and college libraries throughout the country and to some extent in foreign countries, those reports which are not available from Washington should be read in these libraries. Likewise, bound volumes of the periodicals in which Bureau of Mines papers appear may be consulted in libraries throughout the country.

ACKNOWLEDGMENTS

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O. P. Hood,

Chief, Technologic Branch, U. S. Bureau of Mines.

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By A. C. FIELDNER² and M. W. VON BERNEWITZ³

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¹ Work on manuscript completed October, 1930.

² Chief engineer, experiment stations division, U. S. Bureau of Mines.

³ Mining and metallurgical engineer, U. S. Bureau of Mines.

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ECONOMICS AND STATISTICS

As explained in the foreword to this bibliography, the publications of the economics branch of the United States Bureau of Mines consist largely of the annual reports on Mineral Resources of the United States; of a series of surveys issued at regular weekly, monthly, or quarterly intervals; and of articles in technical and trade journals. As this work was formerly conducted by the mineral resources division of the United States Geological Survey (transferred to the Bureau of Mines by Executive Order on July 1, 1925), the Director of the Geological Survey has kindly permitted the inclusion of references to the corresponding publications of the survey between 1917 and the date of transfer.

The annual reports of Mineral Resources consist of a series of chapters, one on each mineral, which are first printed separately under titles such as Coal in 1927, Coke and By-Products in 1927, Fuel Briquets in 1927, or Petroleum in 1927, and are later assembled in volume form under the title, Mineral Resources of the United States. The separate chapters are distributed free to mineral producers and others supplying information, and a limited stock is available for free distribution to others who may apply. Additional copies may be purchased from the Superintendent of Documents, Washington, D. C.

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WEEKLY COAL REPORT

A weekly report of four to eight pages, covering the following subjects: Weekly and monthly estimates of production of anthracite and bituminous coal, by States, and occasionally by districts, based upon current reports of coal originated by railroads and waterways; weekly and monthly statistics of certain major features of coal distribution, including shipments to the Great Lakes, to tidewater, and to New England; and, since March, 1929, a supplement issued at intervals of about a week, analyzing the current trend of coal consumption by classes of consumers and by major markets.

The weekly coal report was begun July 21, 1917; Nos. 1-415 were issued by the United States Geological Survey. Beginning with No. 416, issued July 3, 1925, the report was published by the United States Bureau of Mines. It is supplied free on application. Back numbers are furnished as long as the supply lasts.

The detailed statistics collected from coal operators covering production, men employed, days worked, mine equipment used, output per man per day, etc., are published in summary form through the weekly coal report, as rapidly as they can be compiled.

The data published in the weekly report are later printed in detail in the annual coal chapters of the Mineral Resources of the United States. By keeping the printed report and a file of the subsequent weekly reports the reader will have a complete set of the bureau's latest publications on coal statistics. To facilitate finding information released through the weekly report, the bureau now issues an index at the end of the coal year. The indexes are as follows:

- Index to the Weekly Coal Report—coal year April 1, 1926-March 31, 1927, comprising issues 455-506.
 Index to the Weekly Coal Report—coal year 1927-28, comprising issues 507-559.
 Index to the Weekly Coal and Monthly Coke Reports—coal year 1928-29, comprising issues W. C. R. 560-611 and M. C. R. 1-12.

PRELIMINARY ESTIMATES OF MONTHLY PRODUCTION OF COAL AND BEEHIVE COKE

For the use of business statisticians, editors, and others who desire monthly data, the Bureau of Mines issues a leaflet giving preliminary figures of production for the preceding month. The leaflet is mailed on the fifth day after the close of the month covered. This service was begun November 5, 1928.

COAL STOCK REPORTS

A report of four to seven pages, with charts, now issued quarterly. It shows the total tonnage of bituminous coal in the hands of consumers estimated from reports furnished by a selected list of 5,000 large consumers; stocks in terms of days supply, classified by types of consumers and districts of the country; the tonnage of coal in transit, including detailed figures of reserves on the upper Lake docks; and the average weekly rate of coal consumption.

Concerning stocks of anthracite, the report covers the tonnage and days' supply on hand in representative retail yards and the quantity in storage on the upper Lake docks.

The first stock report was issued April 24, 1919, by the U. S. Geological Survey; since July 1, 1925, the report has been issued quarterly by the Bureau of Mines.

The stock report is supplied free upon request to all consumers furnishing information and to others interested.

An appendix of detailed tables, giving stocks by classes of consumers in each State, is supplied on request to readers who have a special need for information on local conditions.

GENERAL SURVEY OF CONDITIONS IN THE COAL INDUSTRY

A monthly report containing unofficial information furnished by firms, individuals, and associations representing their views of conditions existing in the coal industry and trade. This report was first issued on April 1, 1923.

In addition to data quoted from the Weekly Coal Reports on the production of anthracite and bituminous coal, bituminous and anthracite all-rail shipments to New England, and monthly tidewater bituminous coal shipments to New England, it includes views of the trade on market conditions, prices, and labor, by States and districts, and at the principal Atlantic ports, and retail conditions in seven cities.

This report is furnished members of the coal trade upon request.

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WEEKLY COAL REPORT

The Weekly Coal Report, described on page 33, in addition to data on coal, includes weekly estimates of the production of beehive coke, by States, based upon reports of cars of coke loaded by 23 of the principal coke-carrying roads.

PRELIMINARY ESTIMATES OF MONTHLY PRODUCTION OF COAL AND BEEHIVE COKE

As outlined on page 33, the Bureau of Mines issues a leaflet on the 5th of each month, giving preliminary figures of beehive-coke production for the preceding month. This service was begun November 5, 1928, for the use of business statisticians, editors, and others who desire monthly data.

MONTHLY COKE REPORT

A monthly report of three to eight pages with charts, which covers the following subjects: Monthly and average daily production of by-product and beehive coke and of pig iron; monthly production of coke by districts; monthly production of by-product coke at plants associated with iron furnaces and at merchant plants; coal consumed monthly in the manufacture of coke; stocks of by-product coke on hand at producers' plants at end of each month; and monthly production, imports, and consumption of coke in Canada. Annual statistics based on the final detailed reports collected from each producer at the close of the calendar year are released in summary form through the Monthly Coke Report as soon as the compilations are completed. Detailed tables and analysis are later published in the coke chapters of Mineral Resources of the United States.

This report is supplied free on application and previous issues are furnished as long as the supply lasts.

An index to the Monthly Coke and Weekly Coal Reports is issued at the end of the coal year.

COAL STOCK REPORT (INCLUDING COKE)

The quarterly report on consumers' stocks of coal also includes data on stocks of coke in the hands of representative retail coal dealers and on producers' stocks at by-product coke plants. (For further information regarding the stock report, see page 34.)

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WEEKLY COAL REPORTS (INCLUDING BRIQUETS)

A summary of the annual statistics of the production of fuel briquets is released in the Weekly Coal Report about three months in advance of the publication of the detailed report. This summary is available upon request.

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